20000317.ba v02_n837.bam.20000317

>From ???@??? Fri Mar 17 06:49:36 2000 -0600
Date: Fri, 17 Mar 2000 06:47:21 CST
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 2837
Message-Id: <20000317130133.C14FD274AF@devel43.theporch.com>

BOATANCHORS Digest 2837

Topics covered in this issue include:

1) Re: The BC-639 & BC-1421
   by "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
2) Re: BC-639
   by "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
3) RE: BC-611 Freq/Power
   by "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
4) Re: EFJ Valiant
   by Arden Allen <gumbear@pacbell.net>
5) Tek 561 CRT freebie
   by Arden Allen <gumbear@pacbell.net>
6) Re: BOATANCHORS digest 2836 (RE: SILICONE!)
   by Jim321@webtv.net
7) ameco nuvistor converters - model CN
   by Charles T Preston <k4ljh@juno.com>
8) RE: SILICONE!
   by AAFRadio@erols.com
9) Exact 501A help
   by Bob Login <jlogin@mindspring.com>
10) Ameco converters
   by Charles T Preston <k4ljh@juno.com>
11) SX-100 audio?
   by "A. B. Bonds" <ab@vuse.vanderbilt.edu>
12) RE: SX-100 audio?
   by "Shriver, John" <john.shriver@intel.com>
13) RE: SX-100 audio?
   by "A. B. Bonds" <ab@vuse.vanderbilt.edu>
14) Re: SX-100 audio?
   by Norm Flasch <flasch@cushy.ece.nwu.edu>
15) Instruction sheed for Novice Adapter
   by "ROBERT F. KEMP" <rkemp@mr.net>
16) FS COLLINS WATTMETER
   by Allan Culbert <Allan-Culbert@uiowa.edu>
17) Cardwell receiver?
   by john <johnmb@mindspring.com>
18) Re: SX-100 audio?

by Richard Post <post@ouvaxa.cats.ohiou.edu>
19) FS: Johnson VFOs & 24V supply
by Tom Smith <tsmith@hal-pc.org>
20) Re: SX-100 audio?
by Arden Allen <gumbear@pacbell.net>
21) R-390A suggestions needed
by Walt Petersen <w2jdh@hitter.net>
22) Swan 500 Oscillation
by Dave Hollander <davidh@getnet.com>
23) Re: R-390A suggestions needed
by "James C. Garland" <4cx250b@miavx1.acs.muohio.edu>

Date: Wed, 15 Mar 2000 23:19:32 -0500
From: "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
Subject: Re: The BC-639 & BC-1421
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <200003152319_MC2-9D4C-C706@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
charset=ISO-8859-1
Content-Disposition: inline

Hans & Group,

The BC-1421 was an improved BC-639-A and was used in the RC-256-C. The
associated transmitting equipment was the RC-257-C. Why the receiver got=

new nomenclature and the transmitter didn't I don't know. I don't have a=
ny
real details on what the modifications entailed as I only have the
operating instructions, T.O. 16-40RC256-6, dated 20 January 1949.

Robert Downs
WA5CAB
Houston

Date: Wed, 15 Mar 2000 23:19:33 -0500
From: "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
Subject: Re: BC-639
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <200003152319_MC2-9D4C-C708@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;

```
      charset=ISO-8859-1
Content-Disposition: inline

Group,

The latest manual that I have on the BC-639 has a revision date of 01 May=

1975!

Robert Downs
WA5CAB
Houston

------------------------------
Date: Wed, 15 Mar 2000 23:33:38 -0500
From: "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
Subject: RE: BC-611 Freq/Power
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <200003152333_MC2-9D4C-C7C7@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
      charset=ISO-8859-1
Content-Disposition: inline

Andre,

3.5-6.0 MC and about 400 MW.  Actually, that's probably input, not output=
.

And incidentally, I ran some tests recently to confirm something that I h=
ad
always suspected.  The Antenna and RF (Tank) coils for the BC-611 and
BC-745/746 (Pogo Stick) appear to be identical.  However, they are not.  =
So
if you have some of each and get them mixed up, ya got a problem.  As
tested in a BC-611, the antenna coils tune higher and the tank coils lowe=
r,
and by quite a bit.  The Pogo Stick went down to 2.0 MC, so anything mark=
ed
below 3500 KC belongs to it.

>Have everything on the BC611 except the power output
        and frequency. :( <

73,
Robert Downs
WA5CAB
```

Houston

Date: Wed, 15 Mar 2000 21:07:42 -0800
From: Arden Allen <gumbear@pacbell.net>
Subject: Re: EFJ Valiant
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0FRI0048V14MM7@mta1.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

Hi John;

> In my experience, carbon resistors usually fail high or
> open. The two exceptions I've seen in thirty-some years
> of troubleshooting were both R3's out of Johnson VFO's.
> Can anyone shed some light on what's happening here? I've
> thrown this question out a couple of times over the years
> but never heard a real good explanation.

In my experience carbon comp resistors dercreasing in value is not too unusual. It mostly occurs with one and two watt resistors in the mid resistance ranges that are called on to dissipate a reasonable percentage of their power rating. If the circuit can supply sufficient current, as in the case of the Johnson VFO resistor, the failure process has a thermal runaway component to it and once the value of the resistor drops sufficiently thermal runaway finishes if off quickly, sometimes taking things with it. The problem seems to depend mainly on the type of composition used by certain manufacturers but knowing what types and manufacturers to be concerned about is not easy to determine. If I'm worried about that occuring in a circuit I play it safe and install a wirewound or metal oxide resistor in place of the toasted carbon part.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Date: Wed, 15 Mar 2000 21:29:54 -0800
From: Arden Allen <gumbear@pacbell.net>
Subject: Tek 561 CRT freebie
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0FRI001QN1XY0M@mta1.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

Teksperts;

It's a pull from a non-working scope that was unfortunately turned into a parts unit before I got hold of the remains. There are no visible burns on the phosphor. I'll ship it to anyone who will cover the shipping cost.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

From: Jim321@webtv.net
Date: Wed, 15 Mar 2000 21:15:23 -0800 (PST)
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: BOATANCHORS digest 2836 (RE: SILICONE!)
Message-ID: <4971-38D06DEB-3192@storefull-297.iap.bryant.webtv.net>
Content-Disposition: Inline
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
MIME-Version: 1.0 (WebTV)

I noticed that my reply to an eMail from the author of 'this' letter omitted/deleted/didn't receive before his reply was posted/ the information I sent him re: the "Silicone Removal" product from a firm called "Griot's Garage". I have NO fiscal connection with this firm, just used their prods., they are good & have a 100% "No Quibble" MBG. Hence, even though I have NO LETTERS after my name, which "appears" to be an invitation for polite I admit, 'put-downs' for 'apparent ignorance' by at least one 'regular' contributor to this column (IMNSHO), and I clean my mail outbasket like I change my boxers, once a day,I had to attempt to recreate what I replied to him, as it MIGHT be useful to some reader. Here is a direct quote from the package: "Removes polyglycoats, old waxes, and polymer-silicone residue. Shake well (makes long lasting foam in bottle, hydrocarbons don't) Apply by spraying on the paint surface, brush into hard to spray/reach places, let stand for 2 to 6 mins., make sure surf. stays damp. Rub w/WATER dampened cloth. (The chemicals Mr.Ornitz mentions don't appear to mix well with water.) Wipe surf. dry w/clean cloth. Surf. now ready for repair, primer or paint" "NOTE: Do not use on FRESH paint or glass surface". Product has a very faint smell, unlike methylene chloride (WOW!), has NO Haz. Mat. ship surcharge, no "wear gloves, face shield, respirator, flammable, use in open air only!, may cause death, warnings on pkg." PERHAPS for some situations this item might be the answer, as I doubt that ANYONE knows for 100% certain that silicone-containing products were NEVER used on a BA. I believe that the best way to ensure that is to go back in time, buy the BA, box it & store it in a bonded warehouse, until today, then you WILL know that (hopefully) NO SILICONE was used on it. I would suggest contacting a tech. rep. at the Co's. 1-800 # and asking questions re: hazards,paint-compatibility, or whatever. Thank you, Jim , XYZT.

To: Old Tube Radios <boatanchors@theporch.com>
Date: Thu, 16 Mar 2000 05:52:09 -0500
Subject: ameco nuvistor converters - model CN
Message-ID: <20000316.055212.-188057.0.K4LJH@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
From: Charles T Preston <k4ljh@juno.com>

Hi Group,   For sale: 1- Ameco 2 meter converter w/ 28-30Mhz. IF
and 1-220Mhz. Ameco converter w/ 7Mhz. IF in good condx.
w/ documentation. Sold as a pair.   30.00 I ship 48 states only.
Charles Preston - Hamilton,Va.   K4LJH@juno.com
____

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http://dl.www.juno.com/get/tagj.

Message-ID: <38D0CF88.C7492423@erols.com>
Date: Thu, 16 Mar 2000 07:11:52 -0500
From: AAFRadio@erols.com
MIME-Version: 1.0
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: SILICONE!
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
To: Old Tube Radios <boatanchors@theporch.com>

(much somewhat sensitive overreaction to logical analysis snipped)
> I had to attempt to recreate what I replied to him, as it MIGHT be
> useful to some reader.

I have no knowledge whatsoever of the chemistry involved, but I will offer two things -

1) what is even *more* "useful to some readers" is what has been tried and its performance either verified or otherwise evaluated. For whatever reason, my experience with the Griot product was no better than that of the other professional silicone removers I've tried, and (a) they work much better on a well sanded surface (perhaps Dr. Ornitz' supposition about prior physical removal of *most* of the oils may be valid? Naw, coundn't happen... :-)) and (b) they aren't perfect by a long shot - I still get fisheyes and floaters, though they *are* reduced in frequency from plain wet sanding and detergent rinse.

2) Like Jim, I am also a big fan of Griot's Garage products - just got

a couple of their superb Reilang oil cans (that even work upside down)
for use on the Bridgeport mill. Whetever they sell is top quality, but
sometime technology can't get there from here. Anybody got some spare
R-12 Freon I can use instead? :-)

The above is personal opinion, and is not to be construed as
authoritative or academically rigorous in any way, shape, or form...

73,
Mike Hanz KC4TOS

Message-Id: <3.0.1.32.20000316090814.008005c0@pop.mindspring.com>
Date: Thu, 16 Mar 2000 09:08:14 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: Bob Login <jlogin@mindspring.com>
Subject: Exact 501A help
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Fellow Collectors:

I have an Exact 501A VCF/sweep function generator
that I want to use but it's not working right guess
thats why it was a bargain? I need the manual and have
been checking the usual sources with no luck. Anyone
have or know where I can get a manual...73 & Tnx Bob, AA8A

To: Old Tube Radios <boatanchors@theporch.com>
Date: Thu, 16 Mar 2000 10:50:13 -0500
Subject: Ameco converters
Message-ID: <20000316.105016.-198011.1.K4LJH@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
From: Charles T Preston <k4ljh@juno.com>

The Ameco converters have been sold. Thanks for the response.
73 Charlie   K4LJH

____
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http://dl.www.juno.com/get/tagj.

Message-Id: <3.0.1.32.20000316095804.013c1ba0@vuse.vanderbilt.edu>

Date: Thu, 16 Mar 2000 09:58:04 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: "A. B. Bonds" <ab@vuse.vanderbilt.edu>
Subject: SX-100 audio?
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

After recapping a Halli SX-100 I find it to be a very hot little rx, but the audio stinks. Clear distortion. (Is that an oxymoron?) At first I thought it to result from the aggressive filtering, but when I inject a sine wave into the phono input I see a little hook on the falling edge (near the midpoint) even at fairly low levels. I woulda though this was crossover distortion, but this is a class A audio stage. I have of course swapped out the 6K6 and the driver (6SC7? Somethin' like that), checked the resistors, replaced the cathode bypass and checked the DC conditions, which look fine. I mean, what's to go wrong with a circuit this simple? Any experience out there?

A. B. Bonds

Message-ID: <392A357CE6FFD111AC3E00A0C99848B00253CAF4@hdsmsx31.hd.intel.com>
From: "Shriver, John" <john.shriver@intel.com>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: SX-100 audio?
Date: Thu, 16 Mar 2000 08:22:11 -0800
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

I see two possibilities. One is that the "hook" is an oscillation. Perhaps caused by the very high Q of the top-notch replacement capacitors. (Compared to the junk of 50 years ago.) Have you got a high-bandwidth scope to see if it's just a glitch or oscillation? Also, if there's any negative feedback in the output stages, that could be what's causing it.

The second is that you're seeing core saturation effects in the output transformer. I'm presuming that this is a single-ended output stage (not push-pull). Those transformers can wind up going in and out of magnetic saturation. Particularly if it's been banged about, and the air gap in the magnetic path of the laminations isn't the right size, allowing the core to saturate too easily.

Hmm, a third idea. Perhaps the screen grid voltage is too low in the 6K6 output tube. Some output tubes get surprisingly non-linear when the screen grid is at the wrong voltage.

> At first I thought it to result from the aggressive filtering,
> but when I inject a sine wave into the phono input I see a little
> hook on the falling edge (near the midpoint) even at fairly
> low levels.

Message-Id: <3.0.1.32.20000316105933.013bfb00@vuse.vanderbilt.edu>
Date: Thu, 16 Mar 2000 10:59:33 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: "A. B. Bonds" <ab@vuse.vanderbilt.edu>
Subject: RE: SX-100 audio?
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 08:22 AM 3/16/00 -0800, you wrote:
>I see two possibilities. One is that the "hook" is an oscillation. Perhaps
>caused by the very high Q of the top-notch replacement capacitors.
>(Compared to the junk of 50 years ago.) Have you got a high-bandwidth scope
>to see if it's just a glitch or oscillation? Also, if there's any negative
>feedback in the output stages, that could be what's causing it.

Quite possibly an oscillation. I am looking at it with a 100 mHz scope.
The "hook" is however fairly low frequency, but nonetheless could be some
manifestation of better caps.
No feedback (at least that is on purpose...).

>
>The second is that you're seeing core saturation effects in the output
>transformer. I'm presuming that this is a single-ended output stage (not
>push-pull). Those transformers can wind up going in and out of magnetic
>saturation. Particularly if it's been banged about, and the air gap in the
>magnetic path of the laminations isn't the right size, allowing the core to
>saturate too easily.

The transformer is a standard e-core kinda output transformer with
shielding over the windings. It looks physically undisturbed (riveted to
the chassis). I plan to try swapping in a junker o/p transformer just to
see what happens, nonetheless.

>
>Hmm, a third idea. Perhaps the screen grid voltage is too low in the 6K6
>output tube. Some output tubes get surprisingly non-linear when the screen
>grid is at the wrong voltage.
>
Screen grid is about 280 v, plate is about 270 v. Screen grid is hooked
right to the B+, plate is fed through the transformer.

Thanks for your ideas, I'll post progress.

73 A. B. Bonds

From: Norm Flasch <flasch@cushy.ece.nwu.edu>
Message-Id: <200003161702.LAA00672@cushy.ece.nwu.edu>
Subject: Re: SX-100 audio?
To: Old Tube Radios <boatanchors@theporch.com>
Date: Thu, 16 Mar 2000 11:02:24 -0600 (CST)
CC: ba <boatanchors@sco.theporch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

I think the output transformers in these sets had a tendency to go bad. Substitute one and see what happens.

> After recapping a Halli SX-100 I find it to be a very hot little rx, but
> the audio stinks. Clear distortion. (Is that an oxymoron?) At first I
> thought it to result from the aggressive filtering, but when I inject a
> sine wave into the phono input I see a little hook on the falling edge
> (near the midpoint) even at fairly low levels. I woulda though this was
> crossover distortion, but this is a class A audio stage. I have of course
> swapped out the 6K6 and the driver (6SC7? Somethin' like that), checked
> the resistors, replaced the cathode bypass and checked the DC conditions,
> which look fine. I mean, what's to go wrong with a circuit this simple?
> Any experience out there?
>
> A. B. Bonds
>
>
>

--
Norm Flasch
Northwestern University
Evanston, Illinois

Message-ID: <38D1587F.12E1@mr.net>
Date: Thu, 16 Mar 2000 13:56:15 -0800
From: "ROBERT F. KEMP" <rkemp@mr.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Instruction sheed for Novice Adapter

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I picked up a Novice adapter for a KWM-2.
Anyone have a instruction sheet/manual for this little unit?
If so, drop me a line.
Thanks.

Bob

Message-Id: <3.0.1.32.20000316152659.006dc288@blue.weeg.uiowa.edu>
Date: Thu, 16 Mar 2000 15:26:59 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: Allan Culbert <Allan-Culbert@uiowa.edu>
Subject: FS COLLINS WATTMETER
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

For Sale: Collins Bi Directional Power Meter

Collins Model number: 779-7543-001

Has two Bird meters (0-25, 0-50, 0-100 scale each) uses a Bird housing with 'N' type connectors and standard Bird slugs. Unit has a 50 watt slug in the reflected position and a 500 watt slug in the forward position to provide simultaneous reading of both forward and reflected power. No documentation.

Cabinet is desk top with sloping front where the meters are positioned.
Cabinet is approximately 11 inches wide and 8 inches deep and 8 inches high.

$175.00

Al, K0AL

Message-Id: <3.0.3.32.20000316165417.006f8d80@mindspring.com>
Date: Thu, 16 Mar 2000 16:54:17 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: john <johnmb@mindspring.com>
Subject: Cardwell receiver?
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I recently got a 1947 version of the ARRL handbook and ran across the advertisement for the Cardwell Fifty Four receiver. What an interesting looking piece! Has anyone actually SEEN one of these? Did they ever exist?

I like the description " Receiver and power supply combined in one sturdy lightweight unit... Weight approximately 70 Lbs"... wow! Thank goodness for aluminum!

Would love to hear anything about this unusual piece

Best
John

Message-Id: <v03007803b4f6e904a196@[132.235.46.157]>
Mime-Version: 1.0
Content-Type: text/enriched; charset="us-ascii"
Date: Thu, 16 Mar 2000 17:18:56 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: Richard Post <post@ouvaxa.cats.ohiou.edu>
Subject: Re: SX-100 audio?

A.B.,

You've got several coupling caps between the 6SC7 and the 6K6 , the obvious 0.001 and the caps on the tone control. There is also that 0.001 cap between the screen grid and plate of the 6K6 (see below). Since you recapped with known good caps, those should not be a problem. I assume you checked the bias on both the 6SC7 and 6K6 input grids. I also assume your noise limiter switch is working properly. As I recall, this set has no load on the output transformer when the speaker is not connected. Dirty phone jack switch connections can also unload this transformer. As you know, operating at significant volume to an unloaded output transformer can cause high transients and can do damage.

I once had the mother of all distortion caused by a ceramic cap between the screen grid and the plate of an output tube. It was behaving like a voltage dependent resistor that ended up literally modulating the power supply, a voltage doubler in one of the low-end Heath receivers, GR-91 I think. The scope showed strong audio on the B+ so I wrongly assumed the power supply filters were the problem. The set had previously been non-operative due to intermittent speaker switch contacts on the headphone jack, so I think the cap had taken the brunt of some transients.

Let us know what you find.

73,

Rich

<fontfamily><param>Geneva</param>Boatanchor Pix website - KB8TAD

http://oak.cats.ohiou.edu/~postr/bapix/

Museum of Radio and Technology

http://oak.cats.ohiou.edu/~postr/MRT </fontfamily>

>After recapping a Halli SX-100 I find it to be a very hot little rx, but

>the audio stinks. Clear distortion. (Is that an oxymoron?) At first I

>thought it to result from the aggressive filtering, but when I inject a

>sine wave into the phono input I see a little hook on the falling edge

>(near the midpoint) even at fairly low levels. I woulda though this was

>crossover distortion, but this is a class A audio stage. I have of course

>swapped out the 6K6 and the driver (6SC7? Somethin' like that), checked

>the resistors, replaced the cathode bypass and checked the DC conditions,

>which look fine. I mean, what's to go wrong with a circuit this simple?

>Any experience out there?

>

>   A. B. Bonds

Message-ID: <38D183D9.697BBACF@hal-pc.org>
Date: Thu, 16 Mar 2000 19:01:13 -0600
From: Tom Smith <tsmith@hal-pc.org>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FS: Johnson VFOs & 24V supply
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Still cleaning out BA stuff and came across the below listed items. They are plus shipping and insurance (if wanted).

Johnson mobil VFO (HF)- Cabinet has been repainted but no extra holes. It has a very nice front face and the original knobs. I also have a copy of the manual. $75.00

Johnson 122 VFO (HF) - Very nice looking vfo. The cabinet appears original and the only extra hole appears to be on the underside toward the front allowing access to a trimmer cap. There are six holes very precisely drilled in the top cover that are painted through and appear to be factory. Two are located near each front corner and the rear corners have one hole each. Comments?? I'll pass along any feedback one way or the other to prospective buyers. $80.00

Astron commercial black rack mount power supply - This is one beefy supply that should work well with much of the 24V military equipment. Rated voltage is at 18A continuous and 25A @ 50% duty cycle. This isn't one of the little dinky switching supplies and shipping will be a factor (not real large but heavy). $75.00

Please email if interested.

Tom N5AMA

Date: Thu, 16 Mar 2000 20:39:07 -0800
From: Arden Allen <gumbear@pacbell.net>
Subject: Re: SX-100 audio?
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0FRJ00ASXUZOPW@mta2.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

Hi AB;

> ....but when I inject a
> sine wave into the phono input I see a little hook on the falling edge
> (near the midpoint) even at fairly low levels. ....

This sounds suspiciously like a VHF parasitic oscillation at a certain point along the audio circuit's ever changing transfer function as the sine wave does its wavy thing. Uh, ...yes, you read correctly. Try the old trick of sticking a screwdriver blade on grids and plates while watching the output at the speaker. If the "hook" changes or goes away that's what you've got.

For those of you who have wondered what the ferrite beads are doing in the later versions of the TV-7( )/U tube testers they are there to kill VHF parasitics which screw up the test readings. I get them in with my TV-7/U (no suffix) which has no beads on some tubes and also with my B&K 606 tester. You can tell they are there when you wrap your fingers around the tube and watch readings change.

Arden Allen   KB6NAX   Vallejo, CA   gumbear@pacbell.net

Message-ID: <38D1BE3F.5BEF8C50@hitter.net>
Date: Fri, 17 Mar 2000 00:10:23 -0500
From: Walt Petersen <w2jdh@hitter.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: R-390A suggestions needed
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I've recently purchased an R-390A, and have pretty much finished bringing it up to standard.

It sounds great and is quite sensitive, but the AGC is, frankly, lousy and the carrier level meter never reads more than 15% upscale with a STRONG signal. I have checked MANY of the components and tried numerous good tubes without any luck.

I strongly suspect that the AGC is probably doing as well as the design/era will let it, but since I'm not a purist, I wonder if anyone has altered the circuit to improve the AGC action.

Also, while it's far from critical, is there any way to get the carrier level to read higher? I've made the IF gain sensitivity adjustments, and all's well there.

Thought I'd ask first before "going it alone", I hate to try to re-invent the wheel!

Also, that gear/cam assembly should be a required course for ALL mechanical engineers!

Walt, W2JDH

Message-ID: <38D1C0F1.3D5521D6@getnet.com>
Date: Fri, 17 Mar 2000 05:21:53 +0000
From: Dave Hollander <davidh@getnet.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Swan 500 Oscillation
Content-Type: text/plain; charset=us-ascii; x-mac-type="54455854"; x-mac-creator="4D4F5353"
Content-Transfer-Encoding: 7bit

Thanks to all who gave me suggestions but none caught the problem. Turns out that a bad 7360 tube is causing the oscillation. Removing it from the socket makes the oscillation go away. And the transmitter won't work with out this tube. Now the issue is where to find a 7360. They are $45 at AES which is about half of the value of the radio. Any suggestions anyone - their is no direct replacement as far as I have been able to determine.

Thanks for the help

Dave N7RK

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Dave N7RK - Webmaster CADXA
Phoenix, Arizona   *DXCC Honor Roll*   *WAZ#23 - 75 Meter SSB*

ex-XE2/N7RK, N7RK/ZB2, VK2ERK, ZM0AJN, WB6NRK, WN6IWX

Boatanchor Collector Extraordinaire preferring Hallicrafters, National and what ever else looks interesting!

E-Mail: davidh@getnet.com My Home Page: http://www.getnet.com/~davidh

Visit the Central Arizona DX Association Home page - http://cadxa.org

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Message-Id: <3.0.5.32.20000317074719.0082c750@miavx1.muohio.edu>
Date: Fri, 17 Mar 2000 07:47:19 -0500
To: Old Tube Radios <boatanchors@theporch.com>

From: "James C. Garland" <4cx250b@miavx1.acs.muohio.edu>
Subject: Re: R-390A suggestions needed
Cc: "boatanchors@theporch.com" <boatanchors@theporch.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Walt,
I think you've very likely got a problem with your R390A's AGC circuit. Most times I've found the AGC problem to be the metal capacitor mounted on the top side of the chassis (not at home now and don't have the schematic, but it's obvious from the diagram. It may be 2uF, or something like that). The capacitor gets leaky and messes up the AGC action, which also influences the s-meter reading. A modern replacement capacitor will easily fit under the chassis.

73,

Jim Garland W8ZR

At 12:10 AM 3/17/2000 -0500, you wrote:
> I've recently purchased an R-390A, and have pretty much finished
>bringing it up to standard.
> It sounds great and is quite sensitive, but the AGC is, frankly, lousy
>and the carrier level meter never reads more than 15% upscale with a
>STRONG signal. I have checked MANY of the components and tried numerous
>good tubes without any luck.

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Website: http://www.muohio.edu/~4cx250b/web/index.htm
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End of BOATANCHORS Digest 2837
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